

CLAIM AMENDMENTS:

Claims 1-4 (Cancelled)

Claims 5-8 (Withdrawn)

Claims 9-11 (Cancelled)

Claims 12-16 (Withdrawn)

Claim 17 (Currently Amended): ~~The coaxial via hole as claimed in claim 1, A coaxial via hole structure for a carrier, wherein the carrier has a first hole, the structure comprising:~~

an outer cylinder-shaped conductor formed on the interior of the first hole and extending along a first direction, wherein the outer cylinder-shaped conductor is -has a second hole therethrough and the second hole has a diameter smaller than a diameter of the first hole, the outer cylinder-shaped conductor being connected to a signal conductor for signal shielding;

an inner cylinder-shaped conductor formed on the interior of the second hole and extending along the first direction so that the inner cylinder-shaped conductor is disposed in the outer cylinder-shaped conductor; and

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an insulating fill between the outer cylinder-shaped conductor and the inner cylinder-shaped conductor.

Claims 18-22 (Withdrawn)

Claim 23 (Currently Amended): ~~The coaxial via hole as claimed in claim 1, further comprising~~ A coaxial via hole structure for a carrier, wherein the carrier has a first hole, the structure comprising:

an outer cylinder-shaped conductor formed on the interior of the first hole and extending along a first direction, wherein the outer cylinder-shaped conductor has a second hole therethrough and the second hole has a diameter smaller than a diameter of the first hole;

an inner cylinder-shaped conductor formed on the interior of the second hole and extending along the first direction so that the inner cylinder-shaped conductor is disposed in the outer cylinder-shaped conductor; and

an insulating fill between the outer cylinder-shaped conductor and the inner cylinder-shaped conductor; and

a conductor which is connected to the outer cylinder-shaped conductor and is connected to a signal conductor for signal shielding.

Claims 24 (Cancelled)

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Claims 25-30 (Withdrawn)

Claim 31 (Cancelled)

Claim 32 (Currently Amended): ~~The coaxial via hole as claimed in claim 31,~~
~~further comprising:~~ A coaxial via hole structure for a carrier, wherein the carrier has a
first hole, the structure comprising:

an outer cylinder-shaped conductor formed on the interior of the first hole and
extending along a first direction, wherein the outer cylinder-shaped conductor has a
second hole therethrough and the second hole has a diameter smaller than a diameter
of the first hole;

an inner cylinder-shaped conductor formed on the interior of the second hole and
extending along the first direction so that the inner cylinder-shaped conductor is
disposed in the outer cylinder-shaped conductor;

an electrical-resistant fill between the outer cylinder-shaped conductor and the
inner cylinder-shaped conductor; and

a conductor which is connected to the outer cylinder-shaped conductor and is
connected to a signal conductor for signal shielding.

Claims 33-37 (Withdrawn)

Claims 38-39 (Cancelled)

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Claims 40-43 (Withdrawn)

Claims 44-46 (Cancelled)

Claims 47-50 (Withdrawn)

Claim 51 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein the first direction is vertical to a direction along which the carrier extends.

Claim 52 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein the carrier is a printed circuit board (PCB).

Claim 53 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein the carrier is a substrate.

Claim 54 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein the carrier at least comprises a conductive layer and the coaxial via hole structure penetrates a portion of the carrier.

Claim 55 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein the carrier at least comprises a conductive layer and the coaxial via hole structure penetrates the carrier.

Claim 56 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein a cross section, in a direction vertical to the first direction, of the outer cylinder-shaped conductor can be round or rectangular, and wherein a cross section, in

the direction vertical to the first direction, of the inner cylinder-shaped conductor can be round or rectangular.

Claim 57 (Newly Presented): The coaxial via hole structure as claimed in claim 17, wherein the insulating fill is made of a material with high dielectric constant.

Claim 58 (Newly Presented): The coaxial via hole structure as claimed in claim 32, wherein the first direction is vertical to a direction along which the carrier extends.

Claim 59 (Newly Presented): The coaxial via hole structure as claimed in claim 32, wherein the carrier is a printed circuit board (PCB).

Claim 60 (Newly Presented): The coaxial via hole structure as claimed in claim 32, wherein the carrier is a substrate.

Claim 61 (Newly Presented): The coaxial via hole structure as claimed in claim 32, wherein the carrier at least comprises a conductive layer and the coaxial via hole structure penetrates a portion of the carrier.

Claim 62 (Newly Presented): The coaxial via hole structure as claimed in claim 32, wherein the carrier at least comprises a conductive layer and the coaxial via hole structure penetrates the carrier.

Claim 63 (Newly Presented): The coaxial via hole structure as claimed in claim 32, wherein a cross section, in a direction vertical to the first direction, of the outer cylinder-shaped conductor can be round or rectangular, and wherein a cross section, in the direction vertical to the first direction, of the inner cylinder-shaped conductor can be round or rectangular.

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